|   |       |   |          |          |              |               |             |                 |   |          | _            |     |       |            |          |                 |   |          |          |          |         |         |       |          |          |         |          |              |           |         |         |         |          |          |   |
|---|-------|---|----------|----------|--------------|---------------|-------------|-----------------|---|----------|--------------|-----|-------|------------|----------|-----------------|---|----------|----------|----------|---------|---------|-------|----------|----------|---------|----------|--------------|-----------|---------|---------|---------|----------|----------|---|
| Og/430,412   Examiner   Art Unit  |       | Inday of Claims                                     |          |          |              |               |             |                 |   |          |              |     |       |            | A        | Application No. |   |          |          |          |         |         |       |          |          |         |          | Applicant(s) |           |         |         |         |          |          |   |
| Examiner   Robert C. Hayes, Ph.D.   1647  |       |   |          |          |              |               |             |                 |   |          |              |     | ٦     | 00/430 443 |          |                 |   |          |          |          |         |         |       |          |          | RF      | - P      |              |           |         |         |         |          |          |   |
| Robert C. Hayes, Ph.D.   1647   |       |   |          |          |              | Ш             |             |                 | Ш |          |              |     |       |            |          |                 |   |          |          |          |         |         |       |          |          |         | +        |              |           |         |         |         | <u>`</u> |          |   |
| Rejected  |       |   |          |          |              |               |             |                 | Ш |          |              |     |       |            |          | -               |   |          | 16       | •        |         |         |       |          |          |         |          | <u></u>      |           |         |         |         |          |          |   |
| Rejected  |       | 1 18 8 111 18 1111 18 1111 11 18 8 11111 18 1111 11 |          |          |              |               |             |                 |   |          |              |     |       |            |          | F               | Robert C. Hayes, Ph.D.  |          |          |          |         |         |       |          |          |         |          | 1647         |           |         |         |         |          |          |   |
| Claim   |       |   |          | _        |              |               |             |                 |   | _        |              |     |       |            |          |                 |   | ,        |          |          |         |         |       | •        | _        |         |          |              |           |         |         |         |          |          |   |
| Claim   |       |   |          | √        | Re           | eje           | cte         | 1               |   | -        | Ţ            | Th  |       |            |          | ∍ral)<br>——     | )<br>——   |          | N        | <u>.</u> | No      | n-E     | lec   | tec      |          |         | A        |              | A         | ppe     | al      |         |          |          |   |
| Tau         Tau <td></td> <td></td> <td></td> <td>=</td> <td>Α</td> <td>llo</td> <td>wec</td> <td></td> <td></td> <td>÷</td> <td></td> <td></td> <td>Res</td> <td>itric</td> <td>ted</td> <td></td> <td></td> <td></td> <td>ı</td> <td></td> <td>Inte</td> <td>erfe</td> <td>ere</td> <td>nce</td> <td>,</td> <td></td> <td>0</td> <td></td> <td>Ob</td> <td>jec</td> <td>ted</td> <td>ļ</td> <td></td> <td></td> <td></td>   |       |   |          | =        | Α            | llo           | wec         |                 |   | ÷        |              |     | Res   | itric      | ted      |                 |   |          | ı        |          | Inte    | erfe    | ere   | nce      | ,        |         | 0        |              | Ob        | jec     | ted     | ļ       |          |          |   |
| The control of the | Claim |   |          | Γ.       |              |               |             | ate             |   |          | Claim        |     |       |            |          |                 | Date  | e        |          |          |         |         | Clair | m        |          | Date    |          |              |           |         | 1       |         |          |          |   |
| 1       +       -       -       -       101       -       102       -       103       -       103       -       103       -       104       -       104       -       -       104       -       -       104       -       -       -       -       -       104       -   |       | <u> </u>  | Γ        | П        | $\neg$       | П             | $\neg \tau$ | T               | _ | П        |              | ŀ   |       |            | $\top$   | Т               | T   | 1        | Ť        | Τ        | Т       | Т       | 1:::  |          | $\neg r$ |         | Т        |              |           | Ť       | Ť       | $\top$  | Τ        | П        |   |
| 102   |       | Final   | Origina  | 8/12/03  | 4/15/04      | 10/4/04       | 4/5/05      |                 |   |          |              |     | Final | Origina    |          |                 |   |          |          |          |         |         |       | Final    |          | Origina |          |              |           | į       |         |         |          |          |   |
| 102   |       |   | 1        | +        | 7            | ▗             | ┰           | $\dashv$        |   | ╁        | <b>-</b>     | ŀ   |       | 51         | +        | +               | ╁   | 1        | ┢        | 十        | 十       | +       | 1:::  | 1        | 1        | 101     | 十        |              | $\dashv$  | +       | 十       | +       | +        | 1        |   |
| 4       +   |       |   | 2        | +        | フ            |               |             |                 |   |          |              | ľ   |       | 52         |          |                 | T   |          |          | T        |         | 1_      |       |          | 1        | 102     |          |              |           |         |         | T       | T        |          |   |
| 3 + N     55       6 + N     106       1 + N     57       8 + N     58       9 = =     60       11  |       |   | 1        | +        |              |               |             |                 |   |          |              |     |       |            |          | $\Box$          |   |          |          |          |         |         |       |          |          |         |          |              |           |         |         |         |          |          | j |
| 6       + N         106         1       + N         107         3       + N         55         9       = =         59         10       = =         60         11         =         60         12       = =         62         13       = =         63         14         64         114         15         65         115         16         67         117         18         68         118         19         69         119   |       |   | 4        | +        | $\checkmark$ |               |             |                 |   |          |              |     |       |            |          |                 |   |          |          | L        |         |         |       |          |          |         |          |              |           |         |         |         |          |          | j |
| + N   |       |   | _\$      |          |              |               |             |                 |   |          |              |     |       |            |          |                 | $\perp$   | L        | L        |          | $\perp$ | $\perp$ |       |          |          |         |          |              |           | $\perp$ | $\perp$ | $\perp$ |          |          |   |
| \$\begin{array}{c c c c c c c c c c c c c c c c c c c   |       |   | <b>6</b> |          |              | _             | $\perp$     | $\perp \perp$   |   | Ш        |              |     |       | 56         | $\perp$  |                 | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ | L        | L        | ┸        | ┵       | ┸       | ╝     |          |          |         | _        | $\perp$      | $\bot$    | $\perp$ | $\perp$ |         | <u> </u> | _        |   |
| 9     =     =     59     109       10     =     =     60     110       11     J =     61     111       12     =     62     112       13     =     63     113       14     64     114       15     65     115       16     66     116       17     67     117       18     68     118       19     69     119  |       |   | 1        |          |              | _             | _           |                 |   | Ш        | Щ            | ۱   |       |            | $\dashv$ | 4               | ↓   |          | _        | 1        | $\bot$  | $\bot$  | ┨     | _        |          |         | _        | _            | <u>. </u> | _       |         | $\bot$  | _        | <u> </u> | 1 |
| 10     =     =     60     110     110       11     J =     61     111     111       12     =     62     112     112       13     =     63     113     114       15     64     114     115       16     65     115     116       17     67     117     117       18     68     118     118       19     69     119   |       |   | 1        | +        | N            | _             | _           | $\dashv$        |   | 1_       |              | ij. |       |            | $\dashv$ | ┿               | ₩   | _        | L        | ╄        | ┷       | ╄       | ╝     | <u>_</u> |          |         | 4        | 4            | 4         | 4       | 4       | 4       | 1        | ↓_       | ļ |
| 11     J =     61     111       12     = =     62     112       13     = =     63     113       14     64     114       15     65     115       16     66     116       17     67     117       18     68     118       19     69     119   |       |   |          | Ш        | $\dashv$     | -             | _           |                 |   | $\perp$  | <u> —</u>    | -   |       |            | $\dashv$ |                 | ╄   | L        | ↓_       | 4        | 4       | 4       | -     | <u> </u> |          |         |          | 4            | 4         | 4       | _       | $\bot$  | ╀        | ↓_       |   |
| 12     = =     62     112       13     = =     63     113       14     64     114       15     65     115       16     66     116       17     67     117       18     68     118       19     69     119   |       |   |          | Ш        |              | =             | -           |                 |   | 1        | Щ.           | -   |       |            | $\dashv$ | -               | ╄   | <u> </u> | ļ_       | -        | +       | _       | 4     | <u> </u> |          |         |          | _            |           | _       | 4       | 4       | _        |          |   |
| 13     =     =     63     113     114       14     64     114     114       15     65     115       16     66     116       17     67     117       18     68     118       19     69     119   |       |   |          | Н        | -            | ~             |             |                 |   | 1        | ::           | ij- |       |            | -        | -               | ₩   | <u> </u> | ┝        | +-       | +       | +       | -     | -        |          |         | -        | +            | +         | +       | +       | +       | ╁        | ┼        | ł |
| 14     64     114       15     65     115       16     66     116       17     67     117       18     68     118       19     69     119   |       | -   |          | Н        | -            | $\rightarrow$ | -           |                 | _ | $\vdash$ |              | ⊪   |       |            | +        | +               | ╁   |          | ⊢        | +        | +       | +       | -     | -        |          |         | -        | -+           |           | +       | +       | +       | ╁        | +        |   |
| 15     65       16     66       17     67       18     68       19     69   |       |   |          | H        |              | -             | ╧┼          | -+-+            |   | $\vdash$ | <b></b>      | ╬   |       |            | $\dashv$ | +               | ╁   | ┢        | ┝        | ┿        | ┿       | ╁       | -     | $\vdash$ |          |         | $\dashv$ | -+           |           | +       | +       | +       | ╁        | ╁        | 1 |
| 16     66       17     67       18     68       19     69   |       | -   |          | $\vdash$ | $\dashv$     | $\dashv$      | +           | $\dashv$        |   | $\vdash$ | <b>—</b> ::: | ŀ   |       |            | +        | +               | +   | $\vdash$ | $\vdash$ | +        | +       | +       | -     | -        |          |         | $\dashv$ | +            | +         | ╁       | +       | +       | +        | ╁┈       | 1 |
| 17  |       |   |          | $\vdash$ | $\dashv$     | $\dashv$      | $\dashv$    | $\dashv \dashv$ |   | +        | H            | ŀ   |       |            | +        | +-              | +-  | -        | +        | +        | ╁       | +       | -     | $\vdash$ |          |         | $\dashv$ | $\dashv$     | +         | +       | +       | +       | +        | ╁╌       |   |
| 18 68 118 119 69 119 119 1  |       |   |          | $\vdash$ | $\dashv$     | $\dashv$      | $\dashv$    | $\dashv \dashv$ |   | $\vdash$ | H:::         | ŀ   |       |            | -        | +               | +   | ╁        | H        | +        | +       | +       | 1     | $\vdash$ |          |         | -        | $\dashv$     | +         | +       | +       | +       | +        | +-       | 1 |
| 19 69 119 119   |       |   |          | $\vdash$ | 一            | -             | +           | $\dashv \dashv$ |   | $\vdash$ | Hiii         | ᅡ   |       |            | +        | +-              | +   | $\vdash$ | H        | +        | +       | +       | 1     | $\vdash$ |          |         | $\dashv$ | +            | +         | +       | +       | ╁       | ╁        | +        |   |
|   |       |   |          | Н        | -            | _             | +           | ++              | _ | Н        |              | ŀ   |       |            | $\top$   | +               | +   | Т        | $t^{-}$  | +        | $\top$  | +       | 1     | -        |          |         | $\dashv$ | $\dashv$     | +         | ╅       | +       | +       | +        | T        | 1 |
| <u> </u>  |       |   | 20       | П        |              |               | $\exists$   | $\top$          |   | $\Box$   |              | ľ   |       | 70         |          | $\top$          | T   |          | Г        | T        | T       |         | 1     |          |          | 120     |          |              |           | $\top$  | $\top$  | $\top$  | 1        | 1        | 1 |